

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"B-120"	Port	Quincy, MA	Report	113003
Customer	Sprague Energy	Date	November 18, 2003	Reference	
Operation	Analysis	Terminal	Sprague Energy	Sample #	394787

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

6 Fuel Oil

Shore Tank#11 After Discharge
Inspectorate America Corp.
Inspectorate America Corp.

Tests being Performed	Test method	Sample Results
Gravity API @ 60 F	D - 287	17.3
Flash Point, PMCC, F	D - 93	205
Viscosity cSt @ 122 F	D - 445	193.0
Viscosity SFS @ 122 F	D - 1261	91.5
Pour Point, F	D - 97	48
Sulfur, wt %	D - 4294	0.488
Water & Sediment, vol %	D - 1796	0.10
Gross Heat of Combustion, BTU / lb	D - 240	18,937
Gross Heat of Combustion, BTU / gal	D - 240	149,966
Nitrogen, wt %	D - 3228	0.27
Ash wt %	D - 482	0.02
Ashphaltenes, wt %	IP - 143	2.09
Conradson Carbon Residue, wt %	D - 189	8.09
Vanadium, ppm	D - 5863	26
Sodium, ppm	D - 5863	15
Water by Distillation, Vol %	D - 95	0.2
Sediment by Extraction, wt%	D - 473	0.068
<p>SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.</p>		

** Annotates Analysis Contracted Out